Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:

determining policy definitions for an autonomic computing system;

determining configuration relationships;

monitoring applicable resources for status information;

determining if the autonomic computing system is at a desired end state; and modifying resource states, by sending an instruction for the resource to perform an available action, in response to determining the autonomic computing system is not at the desired end state.

2. (Original) The method of claim 1, wherein the policy definitions can specify at least one of:

an association between a resource and any other set of resources; and a desired state for a resource or set of resources.

- 3. (Original) The method of claim 2, wherein the association between a resource and any other set of resources comprise at least one of:
 - a start order among resources;
 - a stop order among resources;
 - a prioritization between resources;
 - a conditional activation of policies; and
 - a location limitation of resources.

- 4. (Original) The method of claim 1, further comprising:
- receiving resource status information from available resources; and continuing to determine if the autonomic computing system is at the desired end state and modifying the resource states, by sending an instruction for the resource to perform an available action, until the autonomic computing system has reached the desired end state.
- 5. (Original) The method of claim 1, wherein the determining policy definitions for an autonomic computing system comprises:
 - determining a user-defined system end state; and determining a set of user-defined resource relationships.
- 6. (Original) The method of claim 1, wherein the determining policy definitions for an autonomic computing system further comprises harvesting implicit relationships between resources through self discovery.
- 7. (Original) The method of claim 1, wherein the determining policy definitions for an autonomic computing system further comprises determining underlying relationships among members of a resource group.
- 8. (Original) The method according to claim 7, wherein the members of the resource group are distributed within a heterogeneous cluster.

9. (Currently Amended) A computer readable medium comprising computer instructions for performing the following:

determining policy definitions for an autonomic computing system;

determining configuration relationships;

monitoring applicable resources for status information;

determining if the autonomic computing system is at a desired end state; and
modifying resource states, by sending an instruction for a resource to perform an
available action, in response to determining the autonomic computing system is not at the
desired end state.

10. (Original) The computer readable medium of claim 9, wherein the policy definitions : can specify at least one of:

an association between a resource and any other set of resources; and a desired end state for a resource or set of resources.

- 11. (Original) The computer readable medium of claim 10, wherein the association between a resource and any other set of resources comprise at least one of:
 - a start order among resources;
 - a stop order among resources;
 - a prioritization between resources;
 - a conditional activation of policies; and
 - a location limitation of resources.
- 12. (Original) The computer readable medium of claim 9, further comprising computer instructions for performing the following:

receiving resource status information from available resources; and continuing to determine if the autonomic computing system is at a desired end state and modifying the resource states, by sending an instruction for a resource to perform an available action, until the autonomic computing system has reached a desired end state.

13. (Original) The computer readable medium of claim 9, wherein the determining policy definitions for an autonomic computing system comprises:

determining a user-defined system end state; and determining a set of user-defined resource relationships.

- 14. (Original) The computer readable medium of claim 9, wherein the determining policy definitions for an autonomic computing system further comprises harvesting implicit relationships between resources through self discovery.
- 15. (Original) The computer readable medium of claim 9, wherein the determining policy definitions for an autonomic computing system further comprises determining underlying relationships among members of a resource group.
- 16. (Original) The computer readable medium according to claim 15, wherein the members of the resource group are distributed within a heterogeneous cluster.
- 17. (Original) An autonomic computing system resource manager comprising: memory for storing at least one policy definition;

a resource monitor, communicatively coupled with at least one resource in an autonomic computing system and with the memory, for monitoring, and communicating data with, the at least one resource;

a policy generator, communicatively coupled with the memory, and with the resource harvester, for providing in the memory a representation of a system-wide graph of available actions corresponding with the at least one resource in the autonomic computing system; and

an automation engine; communicatively coupled to the resource monitor and the memory, for communicating available actions to the at least one resource in order for the autonomic computing system to establish and maintain a desired end state.

18. (Currently Amended) The autonomic computing system resource manager of claim 17, further comprising:

a resource harvester, communicatively coupled with the at least one resource, the resource monitor, and the policy generator, for harvesting implicit relationships between resources in the autonomic computing system via self discovery.

- 19. (Original) The autonomic computing system resource manager of claim 17, wherein: the policy generator further for specifying implicit relationships between resources in the autonomic computing system.
- 20. (Original) The autonomic computing system resource manager of claim 19, wherein the policy generator further for specifying implicit relationships between resources that are distributed within a heterogeneous cluster in the autonomic computing system.
- 21. (Original) The autonomic computing system resource manager of claim 17, wherein: the policy generator for creating at least one policy definition specified at least in part by a user of the autonomic computing system.
- 22. (Original) The autonomic computing system resource manager of claim 17, wherein: the policy generator for creating at least one policy definition determined at least in part by autonomic computing system self discovery.

23. (Original). An apparatus comprising:

a cluster resource manager, for determining policy definitions for an autonomic computing system, determining a set of available actions, monitoring at least one resource in the autonomic computing system for status information, determining if the autonomic computing system is at a desired end state, and modifying resource states of the at least one resource, by sending at least one instruction for the at least one resource to perform an available action, in response to determining the autonomic computing system is not at the desired end state; and

at least one network interface card, communicatively coupled with the cluster resource manager and the at least one resource, for communicating information between the cluster resource manager and the at least one resource in the autonomic computing system.

24. (Original) An autonomic computing system comprising:

at least one distributed resource; and

an autonomic computing system resource manager comprising:

memory for storing at least one policy definition;

a resource monitor, communicatively coupled with at least one resource in an autonomic computing system and with the memory, for monitoring, and communicating data with, the at least one resource;

a policy generator, communicatively coupled with the memory, and with the resource harvester, for providing in the memory a representation of a system-wide graph of available actions corresponding with the at least one distributed resource in the autonomic computing system; and

an automation engine, communicatively coupled with the resource monitor and the memory, for communicating available actions to the at least one distributed resource in order for the autonomic computing system to establish and maintain a desired end state.